19. The pendulum has maximum potential energy at points A and E.
20. The pendulum has maximum kinetic energy at point C.

Chapter Test C

1. B
2. C
3. C
4. D
5. B
6. B
7. A
8. C
9. D
10. B
11. A
12. C
13. energy
14. fusion
15. electrical energy
16. light energy
17. fission
18. potential energy
19. gravitational potential energy

Standardized Test Preparation

READING

Passage 1

1. D
2. G
3. C
4. G

Passage 2

1. C
2. F
3. A
4. G

INTERPRETING GRAPHICS

1. D
2. F
3. B

MATH

1. D
2. F
3. C
4. H

Vocabulary Activity

1. friction
2. fossil fuels
3. kinetic
4. photosynthesis
5. nonrenewable
6. law of conservation of energy
7. closed system
8. mechanical
9. gravitational
10. energy
11. renewable
12. potential
13. conversion
14. nuclear energy
15. energy resource
16. energy efficiency

Quotation: Conservation is humanity caring for the future.

SciLinks Activity

1. Answers may vary. Sample answer: Chemical energy from the food we eat gives us energy to complete daily activities. Electrical energy operates appliances in our home. Thermal energy heats our food and homes.
2. Answers may vary. Sample answer: The fossils or remains of plants and animals are buried under dirt and rock. The heat and pressure from Earth change the fossils into oil, natural gas, and coal.
3. Answers may vary. Sample answer: When a lot of the sun's energy reaches Earth, it transmits energy to the atoms and molecules in the air and ground. The molecules heat up and make us feel hotter.
4. Answers may vary. Sample answer: Solar energy is a renewable resource and is beneficial because the sun is renewable and free. It can be used to heat homes. Wind energy is a renewable resource that can be used to generate electricity.
5. Sample drawings may include a sun and tree, showing how the tree uses light energy to produce fruit and chemical energy.

Performance-Based Assessment

Original content Copyright © by Holt, Rinehart and Winston. Additions and changes to the original content are the responsibility of the instructor.